

Applicant: Burton H. Birnbaum
Title: METHOD AND APPARATUS FOR
PROCESSING HEART RATE INFORMATION IN A
PORTABLE COMPUTER DEVICE
Our Docket: 1120-8
Page 1 of 10

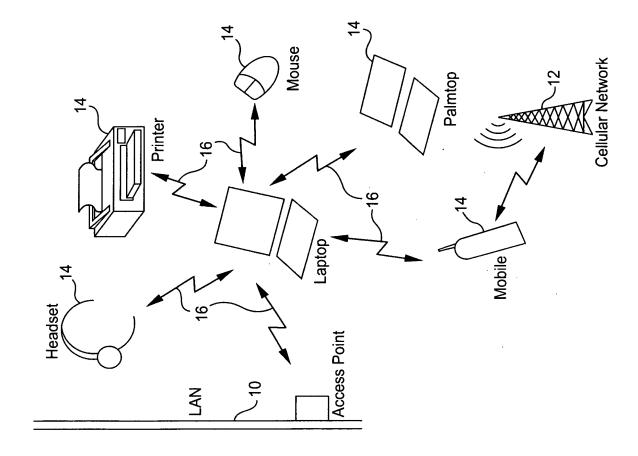
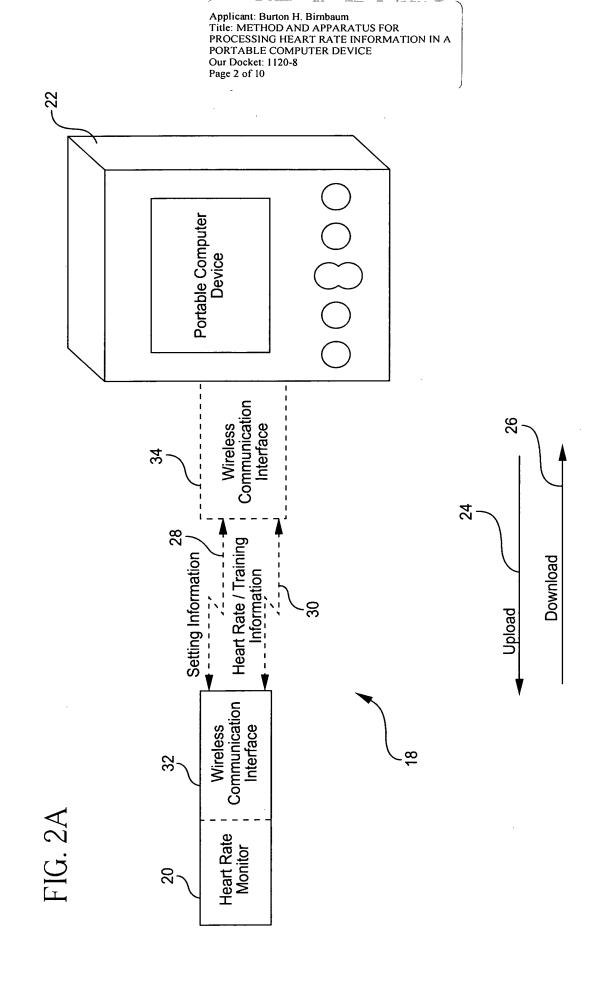
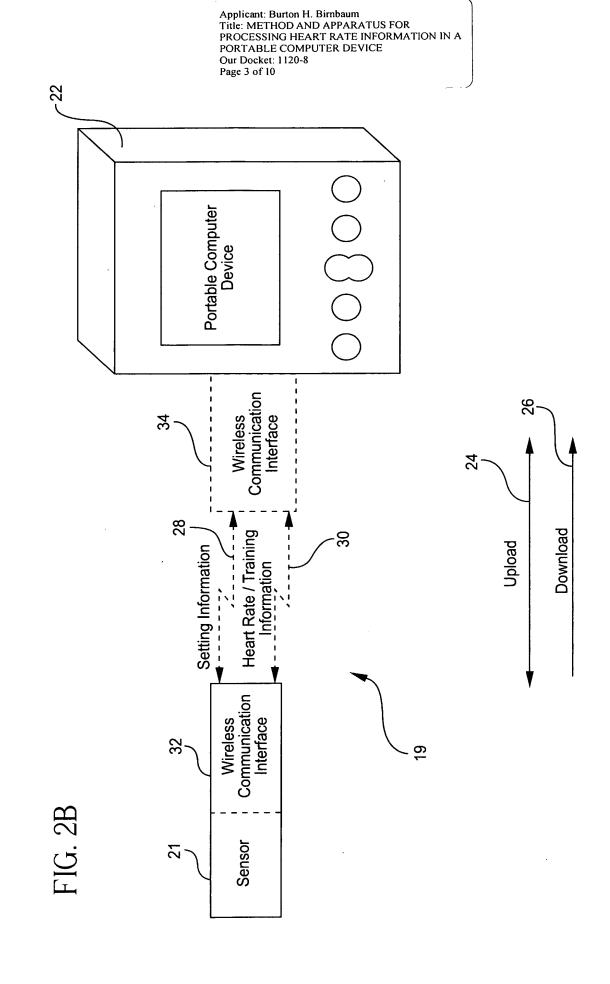


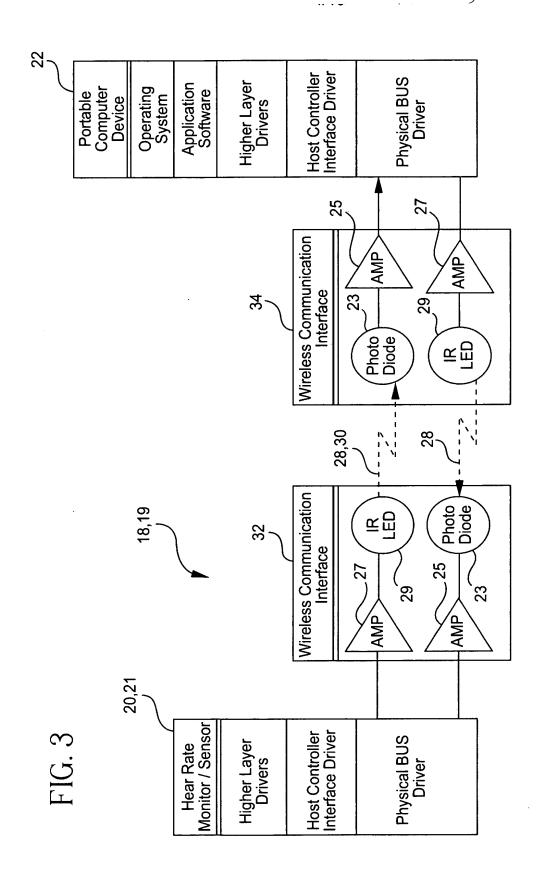
FIG. 1(Prior Art)





Applicant: Burton H. Birnbaum
Title: METHOD AND APPARATUS FOR
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PORTABLE COMPUTER DEVICE
Our Docket: 1120-8

Page 4 of 10



Applicant: Burton H. Birnbaum Title: METHOD AND APPARATUS FOR PROCESSING HEART RATE INFORMATION IN A PORTABLE COMPUTER DEVICE Our Docket: 1120-8 Page 5 of 10

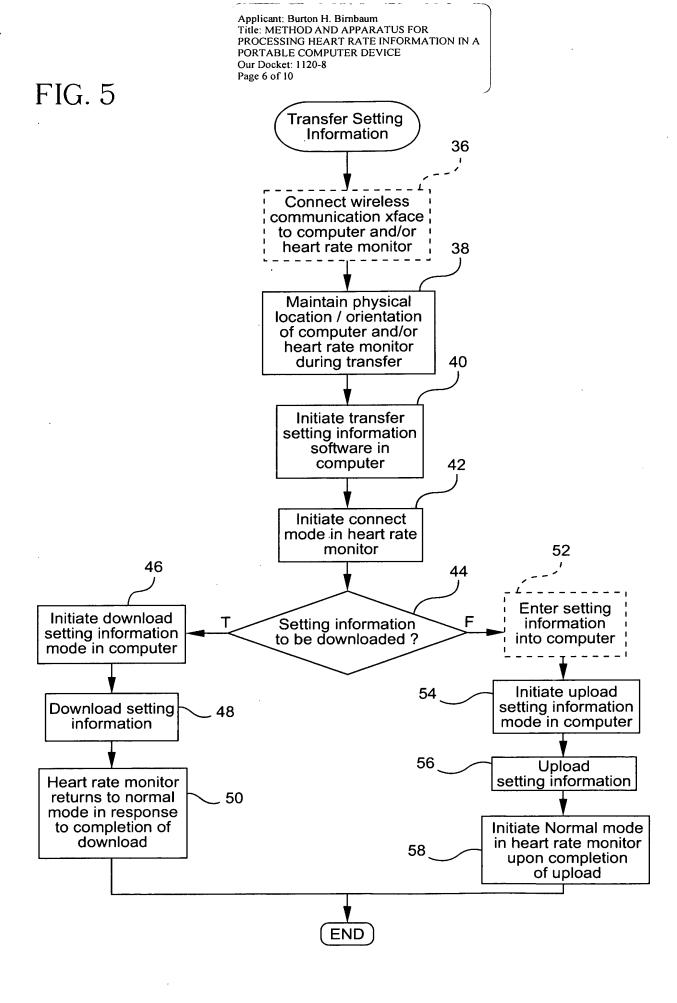
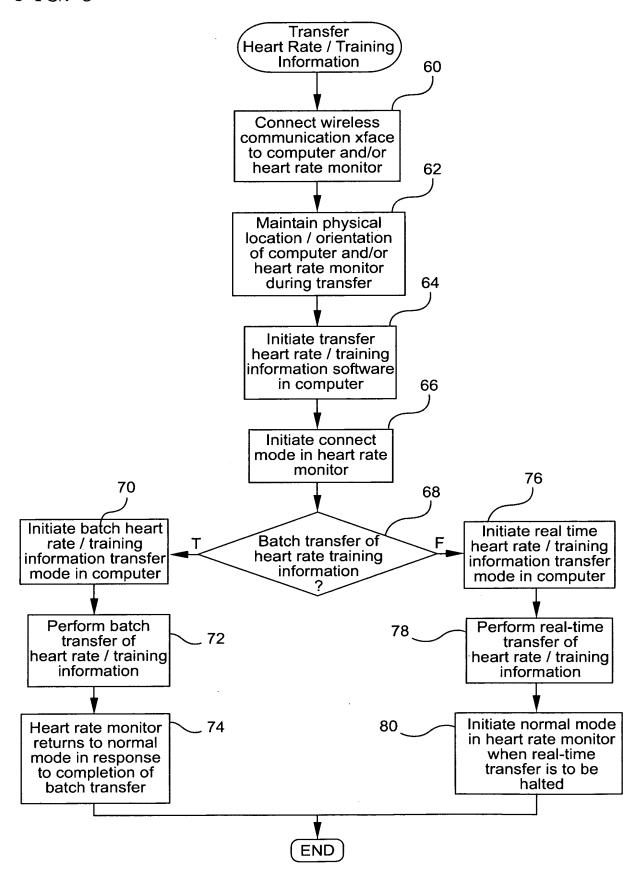
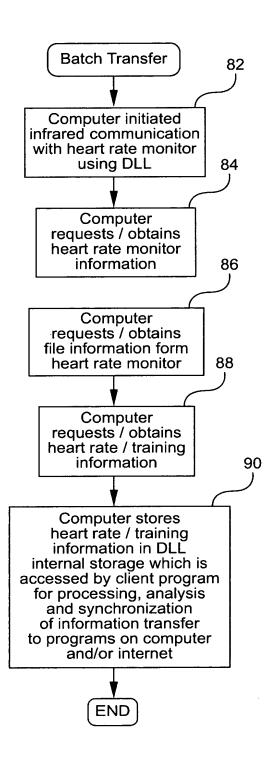


FIG. 6



Applicant: Burton H. Birnbaum Title: METHOD AND APPARATUS FOR PROCESSING HEART RATE INFORMATION IN A PORTABLE COMPUTER DEVICE Our Docket: 1120-8 Page 8 of 10

FIG. 7



Applicant: Burton H. Birnbaum
Title: METHOD AND APPARATUS FOR
PROCESSING HEART RATE INFORMATION IN A
PORTABLE COMPUTER DEVICE
Our Docket: 1120-8
Page 9 of 10

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|---------------------|-----------------------|--------|
|                     | xercises              | Cancel |
| Infrared Connection | III Reading Exercises | Retry  |
| Infra               | _ <u></u>             |        |

- Call DLL functions to transfer information from heart rate monitor to DLL internal storage information transfer to additional programs Optionally synchronize with computer for c. Time below target zone d. Average heart rate e. VO<sub>2</sub> estimate a. Time in target zoneb. Time above target zone information from heart rate monitor to Call DLL functions to read uploaded Display information in various ways Client Program: 2. Statistical analysis on computer and/or internet 1. Graphic analysis DLL internal storage 9 In Process) 92 2. Obtain heart rate monitor information 22 1. Initiate infrared communication 4. Obtain heart rate information Dynamic Link Library (DLL) Infrared Communication in-process server to communicate 3. Obtain file information through infrared port with heart - DLL internal storage contains 1. Communication with heart rate monitor 2. Communication with Client program uses DLL as - DLL performs two functions processing by client program - Communication link steps: downloaded information for client program Portable Computer Device rate monitor

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PORTABLE COMPUTER DEVICE

Our Docket: 1120-8 Page 10 of 10

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